

**DISK DRIVE FOR CIRCULAR SELF SERVO WRITING AND SPIRAL SELF  
SERVO WRITING USING PREWRITTEN REFERENCE SERVO BURSTS**

**ABSTRACT OF THE DISCLOSURE**

A disk drive is disclosed comprising a disk and a head actuated radially over the disk. An external servo writer is used to write reference servo bursts to the disk at a coarser radial resolution than product servo bursts. During a self servo writing operation, the reference servo bursts are processed to servo circularly to write a first set of product servo bursts to the disk. The reference servo bursts are also processed to servo spirally to write a second set of product servo bursts to the disk.